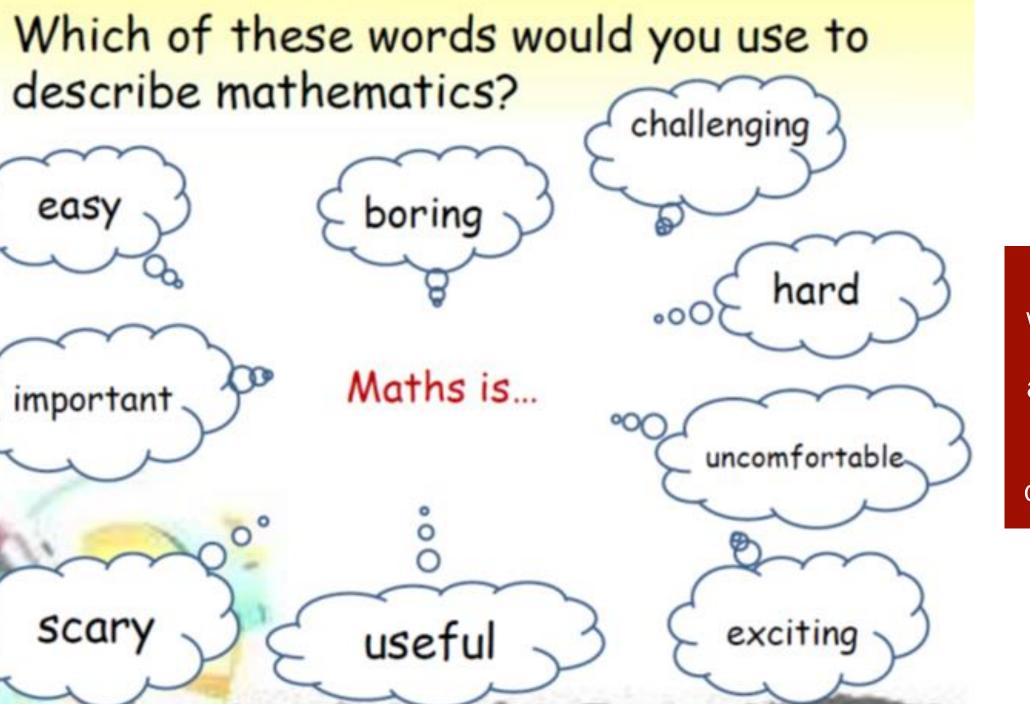


Year 2 Parent Workshop





Be careful what you say - your views about maths will impact on your child's views.

#### Maths is everywhere around us!

- What time is it?
- When do we need to leave home?
- How long does it take us to walk to school?
- How much is that coffee?

Helping children to see this makes it a little less scary and foreign.



We need to first develop a sense of number



- •There must be a progression which culminates in one method.
- •Individual steps within this progression scaffold your children's understanding and should not be rushed through.
- •Practical equipment, models and images are crucial in supporting your children's understanding.

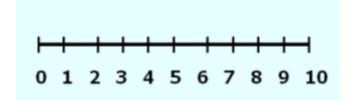
### Progression in maths

**Counting** of objects and mental counting.

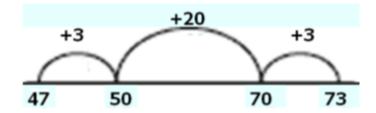
Early stages of calculation using jottings

Please remember that
each child is an
individual and all
children develop their
mathematical
understanding at
a different pace.

Work with structured number lines



Work with larger numbers, unstructured number lines and informal jottings.



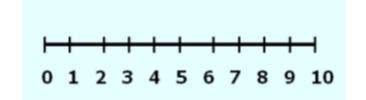
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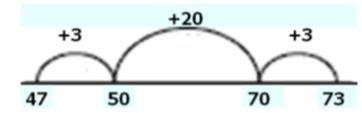
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#### Addition (+)

add more

plus

altogether

more than

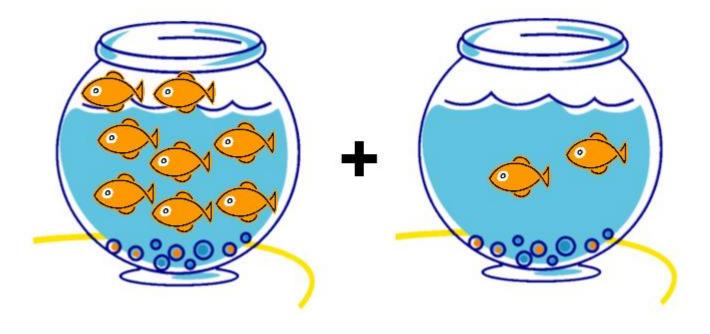
total

sum of

increase

# Progression in Addition

$$8 + 2 = 10$$

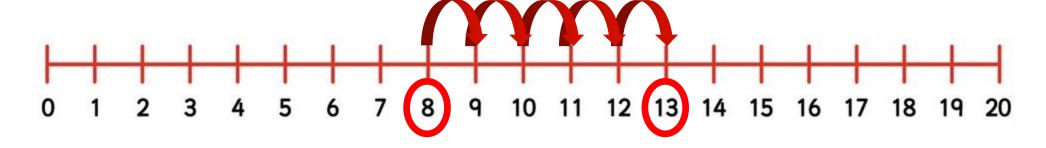


When counting make sure your child points to or touches the objects.

Don't count any twice!

Children then begin to use number lines to support their own calculations, counting on in ones.

$$8 + 5 =$$



More efficient to count on from the larger number (less to work out).

Addition can be done in any order.

#### Commutative

Addition

Make sure the children do not miss out any numbers as they go along the number line.

#### Arrow cards

#### **Partitioning**

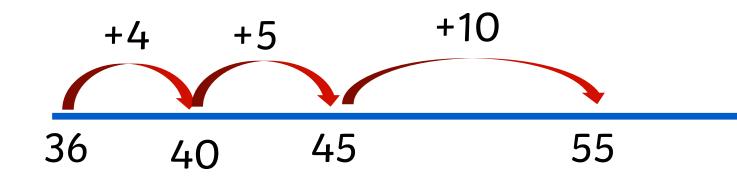
$$54 + 21$$



#### **Partitioning**

Have a go!

#### **Number Lines**



Using number knowledge to help (eg. bonds)

#### Have a go!

#### Subtraction (-)

take away

minus

fewer than

less than

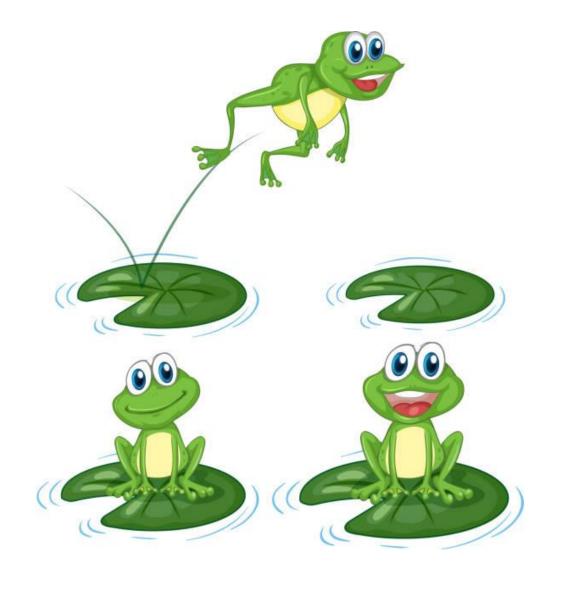
subtract

difference

decrease

How much more is ...?

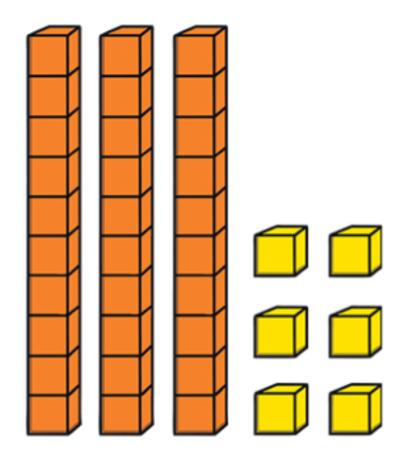
Counting back - taking away
There were four frogs. Two
jumped into the pond.
How many were left?



$$36 - 12 =$$

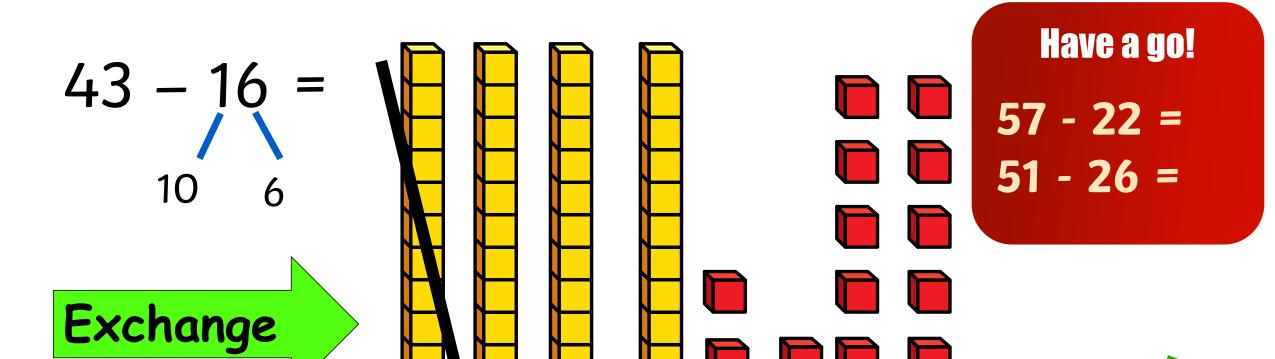
#### Base 10

A visual representation



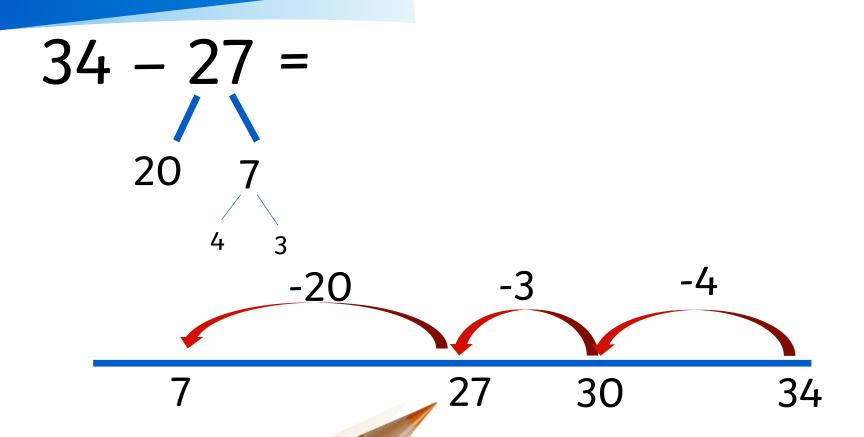
#### Base 10

A visual representation



16

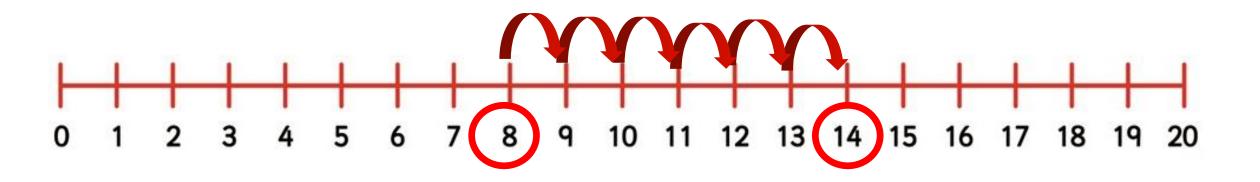
#### **Number Lines**



Have a go!

#### Finding the difference

If my friend is 14 and his sister is 8, how much older is my friend?

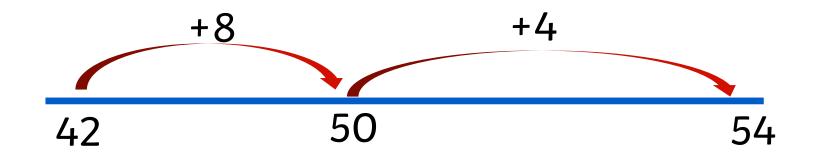


$$14 - 8 = 6$$

#### Difference on Number Lines

# Progression in Subtraction

$$54 - 42 =$$



#### Multiplication (x)

lots of

times

double

groups of

product

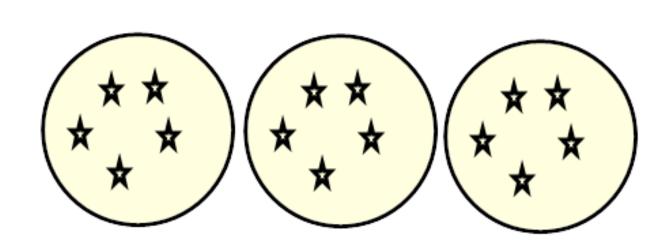
multiply

multiple of

repeated addition

# We look at multiplication as 'groups of'

$$3 \times 5 =$$



# We look at multiplication as 'groups of'

$$6 \times 5 =$$













#### Arrays

Children should be able to model a multiplication calculation using an array.

An orderly arrangement, in rows, columns.

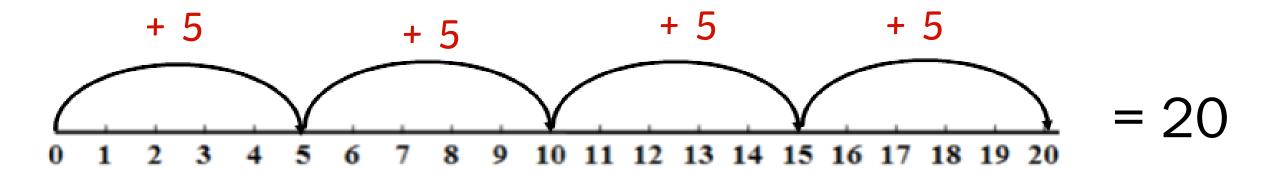
A great visual to show how multiplication is repeated addition.

6 x 2 = 12

#### Repeated Addition

Repeated addition can be shown easily on a number line:

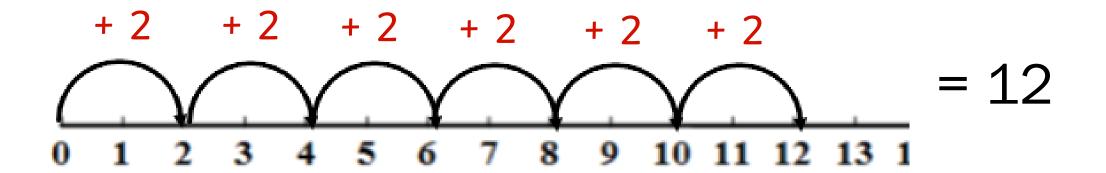
$$4 \times 5 = 5+5+5+5$$
 (4 lots of 5)



#### Repeated Addition

Repeated addition can be shown easily on a number line:

$$6 \times 2 = 2 + 2 + 2 + 2 + 2 + 2$$



#### Division (÷)

share

shared between

divide

divisible by

equal groups

halve

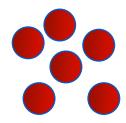
remainder

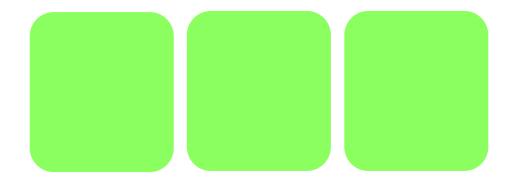
# Progression in Division

# Divide by sharing a set of objects

Children will understand equal groups and share items out in play and problem solving.

$$6 \div 3 = 2$$







# Progression in Division

# Divide by sharing a set of objects

Children will understand equal groups and share items out in play and problem solving.

$$9 \div 2 = 4$$

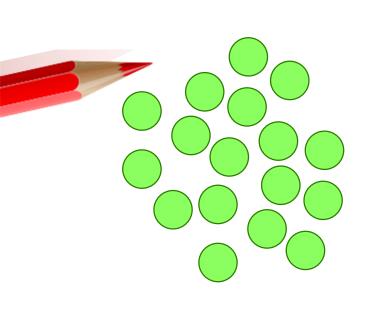


#### Equal groups

Have a go!

Share 17 grapes between these 4 people so that they have the same amount each.

How many do they each receive?









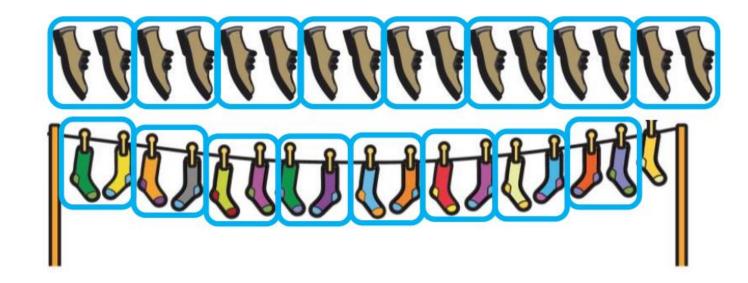


 $17 \div 4 = 4_{1 \text{ left}}$ 

#### Times Tables

# Knowing the times tables by heart helps with fluency when multiplying and dividing.

In Year 2, we focus on 2 times tables first, thinking about doubling and then halving numbers.
Children will recognise that even numbers can be shared evenly, while odd numbers cannot (in whole numbers).



$$16 \div 2 = 8$$

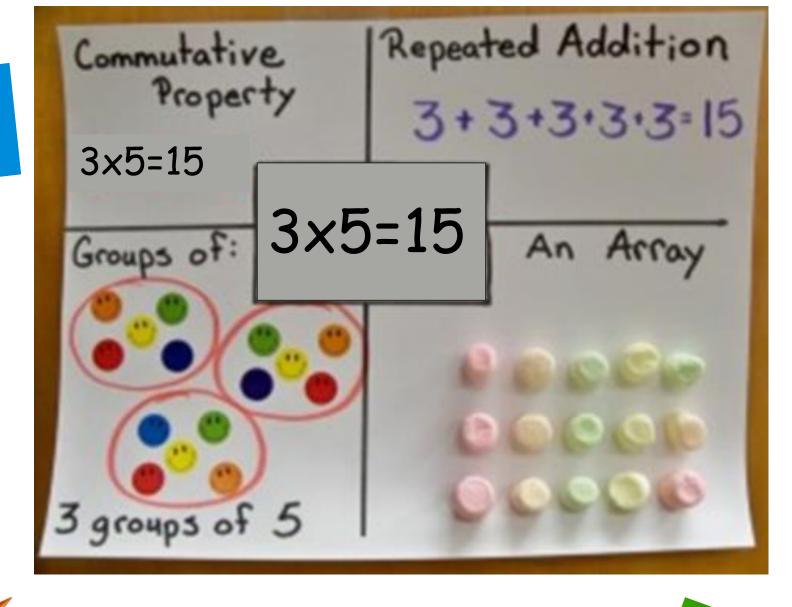
$$17 \div 2 = 8$$

1 left over

#### Relationships

Have a go!

 $7 \times 5 = 35$ 



# How can you help?

- Look for and talk about numbers in the environment
- Play games
- Out and About Shopping
- Counting on/back
- Number bonds
- Doubles/halves
- Times tables and inverse



#### How can you help?

Talk about how you do maths



Be positive

Give praise and encouragement

Ask your child to explain

Make sure maths is fun!